

## ROTARY SWITCH WITH RATCHETING FEATURE

## ABSTRACT OF THE DISCLOSURE

5           A rotary switch (102) for an electronic device (100) includes a bump stop  
(104) that triggers a ratcheting feature when hit. The range of the rotary switch (102)  
is expanded via the ratcheting feature. The ratcheting feature inhibits scrolling  
through a device parameter in one rotation direction and enables scrolling through the  
device parameter in the opposite rotation direction. Depending on which direction the  
10 bump stop (104) is hit, the parameter is either incremented or decremented. The range  
of the rotary switch can also be expanded by modifying the step size of the rotary  
switch based on the range of a selected parameter (504). The coarse step is then  
narrowed with each change in rotation direction (510, 518) based on current, previous  
and useable switch positions (512, 514).

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